

Title (en)  
FLUID EJECTION HEAD, DIGITAL DISPENSE DEVICE AND ASSOCIATED METHOD

Title (de)  
FLÜSSIGKEITSAUSSTOSSKOPF, DIGITALE ABGABEVORRICHTUNG UND ZUGEHÖRIGES VERFAHREN

Title (fr)  
TÊTE D'ÉJECTION DE FLUIDE, DISPOSITIF DE DISTRIBUTION NUMÉRIQUE ET PROCÉDÉ ASSOCIÉ

Publication  
**EP 3909678 A3 20211124 (EN)**

Application  
**EP 21171416 A 20210430**

Priority  
US 202016875232 A 20200515

Abstract (en)  
A digital dispense device (20) and method for ejecting one or more fluids into a target area (22) of a substrate. The digital dispense device includes (A) a fluid ejection head (38) for the digital dispense device having one or more arrays (42A-42D) of fluid ejectors thereon; (B) a fluid ejection head translation device for moving the fluid ejection head over the target area of the substrate in a first direction, wherein the one or more arrays of fluid ejectors on the fluid ejection head are oriented parallel to the first direction; and (C) a control device for activating one or more fluid ejectors in the one or more arrays of fluid ejectors as the one or more fluid ejectors intersect the target area of the substrate.

IPC 8 full level  
**B01L 3/00** (2006.01); **B01L 3/02** (2006.01); **G01N 35/02** (2006.01); **G01N 35/10** (2006.01)

CPC (source: CN EP US)  
**B01L 3/0268** (2013.01 - EP); **B41J 2/01** (2013.01 - CN); **B41J 2/04535** (2013.01 - EP); **B41J 2/04543** (2013.01 - EP);  
**B41J 2/04586** (2013.01 - EP); **B41J 2/145** (2013.01 - CN EP US); **B41J 25/24** (2013.01 - CN); **B41J 25/308** (2013.01 - CN);  
**G01N 35/028** (2013.01 - EP); **G01N 35/10** (2013.01 - EP); **G01N 35/1016** (2013.01 - EP); **G01N 35/1072** (2013.01 - EP);  
**B01L 2200/143** (2013.01 - EP); **B01L 2300/0829** (2013.01 - EP); **G01N 2035/1041** (2013.01 - EP)

Citation (search report)  
[XI] WO 2019074524 A1 20190418 - HEWLETT PACKARD DEVELOPMENT CO [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**US 11090938 B1 20210817**; CN 113665242 A 20211119; CN 113665242 B 20230303; EP 3909678 A2 20211117; EP 3909678 A3 20211124;  
EP 3909678 B1 20230118; EP 4186595 A1 20230531; JP 2021179431 A 20211118

DOCDB simple family (application)  
**US 202016875232 A 20200515**; CN 202110474438 A 20210429; EP 21171416 A 20210430; EP 22211635 A 20210430;  
JP 2021079266 A 20210507